



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			7.17	9.41	12.15	15.40	19.20			
10.0			6.76	8.90	11.50	14.55	18.15	22.40	27.30	32.90
15.0			6.36	8.39	10.80	13.70	17.15	21.10	25.70	31.00
20.0			5.95	7.87	10.15	12.90	16.10	19.85	24.20	29.20
25.0			5.53	7.35	9.51	12.05	15.05	18.55	22.60	27.30
30.0			5.09	6.81	8.83	11.20	14.00	17.25	21.10	25.40
35.0			4.63	6.25	8.13	10.35	12.95	15.95	19.50	23.60
40.0				5.66	7.41	9.46	11.85	14.65	17.90	21.70
45.0					6.66	8.54	10.75	13.30	16.30	19.75
50.0					5.88	7.59	9.59	11.90	14.65	17.80
55.0						6.60	8.40	10.50	12.95	15.80
60.0						5.56	7.17	9.04	11.25	
62.0							6.66	8.44	10.55	

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			2.78	3.06	3.27	3.42	3.49			
10.0			2.93	3.25	3.53	3.75	3.89	3.94	3.90	3.74
15.0			3.06	3.44	3.78	4.06	4.27	4.40	4.44	4.38
20.0			3.16	3.60	4.00	4.35	4.64	4.85	4.98	5.01
25.0			3.25	3.75	4.21	4.63	4.99	5.29	5.50	5.62
30.0			3.31	3.86	4.39	4.88	5.32	5.70	6.00	6.22
35.0			3.34	3.95	4.54	5.11	5.62	6.08	6.47	6.78
40.0				4.00	4.66	5.30	5.89	6.44	6.92	7.33
45.0					4.74	5.45	6.12	6.75	7.33	7.83
50.0					4.78	5.56	6.31	7.03	7.70	8.30
55.0						5.62	6.46	7.27	8.03	8.73
60.0						5.64	6.56	7.45	8.31	
62.0							6.58	7.51	8.41	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			6.30	6.62	6.88	7.06	7.13			
10.0			6.45	6.84	7.18	7.45	7.63	7.68	7.60	7.34
15.0			6.59	7.05	7.47	7.84	8.13	8.30	8.35	8.23
20.0			6.72	7.25	7.76	8.22	8.62	8.92	9.09	9.13
25.0			6.83	7.43	8.03	8.59	9.10	9.52	9.84	10.02
30.0			6.91	7.59	8.27	8.94	9.56	10.11	10.56	10.89
35.0			6.94	7.70	8.48	9.25	9.99	10.67	11.26	11.75
40.0				7.77	8.65	9.52	10.38	11.19	11.93	12.57
45.0					8.76	9.75	10.72	11.67	12.56	13.36
50.0					8.82	9.92	11.02	12.10	13.13	14.10
55.0						10.02	11.25	12.47	13.65	14.78
60.0						10.05	11.41	12.77	14.11	
62.0							11.45	12.87	14.27	

50 Hz

D3DA-50X

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			38.40	50.50	65.40	83.20	104.50			
10.0			37.60	49.70	64.30	81.80	102.50	127.50	156.00	190.00
15.0			36.90	48.80	63.20	80.50	101.00	125.00	153.50	187.00
20.0			36.00	47.90	62.10	79.00	99.20	123.00	151.00	184.00
25.0			35.10	46.80	60.80	77.50	97.30	121.00	148.50	180.50
30.0			34.00	45.60	59.40	75.80	95.30	118.50	145.50	177.50
35.0			32.60	44.20	57.80	73.90	93.10	115.50	142.50	174.00
40.0				42.50	56.00	71.80	90.60	113.00	139.00	170.50
45.0					53.80	69.30	87.70	109.50	135.50	166.50
50.0					51.10	66.40	84.50	106.00	131.50	162.00
55.0						62.90	80.80	102.00	127.50	157.50
60.0						58.80	76.50	97.50	122.50	
62.0							74.60	95.60	121.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m ³ /h	32.2
Bore/Stroke, mm	55.6/50.8
Length/Width, mm	655/370
Height, mm	480
Net Weight, kg	146
Gross Weight, kg	157
Rotalock Discharge, inch	7/8
Suction, inch	1 3/8
Oil Quantity, l	3.7
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	69
Sound Power (LT), dBA	80
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	15.9
Locked Rotor Current, A	55
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

Crankcase Heater	70 W Internal
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Unloaded start	Available
Deep Oil Sump	Mounted
Capacity Control	Moduload
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00